

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Original) A method of manufacturing a piezoelectric thin film resonator that after forming a piezoelectric film on a substrate so as to cover a lower electrode formed on the substrate, forms an electrode material layer for forming an upper electrode above the piezoelectric film, forms a mask of a predetermined form on the electrode material layer, and then etches the electrode material layer to form the upper electrode,

wherein before a step of forming the electrode material layer, a protective layer for protecting the piezoelectric film during etching of the electrode material layer is formed so as to cover at least a part of the piezoelectric film where the upper electrode is not formed, and the electrode material layer is then formed so as to cover the protective layer.

2. (Original) A method of manufacturing a piezoelectric thin film resonator according to Claim 1, wherein the protective layer is formed with silicon oxide ( $\text{SiO}_2$ ).

3. (Original) A method of manufacturing a piezoelectric thin film resonator according to Claim 1, wherein the piezoelectric film is formed with zinc oxide (ZnO).
4. (Original) A method of manufacturing a piezoelectric thin film resonator according to Claim 1, wherein the electrode material layer is formed with aluminum (Al) or gold (Au).
5. (Original) A method of manufacturing a piezoelectric thin film resonator according to Claim 1, wherein the electrode material layer is etched by wet etching to form the upper electrode.
6. (Original) A manufacturing apparatus for a piezoelectric thin film resonator that after forming a piezoelectric film on a substrate so as to cover a lower electrode formed on the substrate, forms an electrode material layer for forming an upper electrode above the piezoelectric film, forms a mask of a predetermined form on the electrode material layer, and then etches the electrode material layer to form the upper electrode,  
  
wherein before the electrode material layer is formed, a protective layer for protecting the piezoelectric film during etching of the electrode material layer is formed so as to cover at least a part of the piezoelectric film where the upper

electrode is not formed and the electrode material layer is then formed so as to cover the protective layer.

7. (Original) A manufacturing apparatus for a piezoelectric thin film resonator according to Claim 6, wherein the electrode material layer is etched by wet etching to form the upper electrode.

8. (Currently Amended) A piezoelectric thin film resonator manufactured according to a method of manufacturing a piezoelectric thin film resonator according to Claim 1 ~~any of Claim 1 to Claim 5~~.

9. (Original) An electronic component constructed so as to include a piezoelectric thin film resonator according to Claim 8.

10. (New) A piezoelectric thin film resonator manufactured according to a method of manufacturing a piezoelectric thin film resonator according to Claim 2.

11. (New) A piezoelectric thin film resonator manufactured according to a method of manufacturing a piezoelectric thin film resonator according to Claim 3.

12. (New) A piezoelectric thin film resonator manufactured according to a method of manufacturing a piezoelectric thin film resonator according to Claim 4.

13. (New) A piezoelectric thin film resonator manufactured according to a method of manufacturing a piezoelectric thin film resonator according to Claim 5.

14. (New) An electronic component constructed so as to include a piezoelectric thin film resonator according to Claim 10.

15. (New) An electronic component constructed so as to include a piezoelectric thin film resonator according to Claim 11.

16. (New) An electronic component constructed so as to include a piezoelectric thin film resonator according to Claim 12.

17. (New) An electronic component constructed so as to include a piezoelectric thin film resonator according to Claim 13.